

Title (en)
METHOD FOR CARRYING OUT A MEASUREMENT PROCESS

Title (de)
VERFAHREN ZUM DURCHFÜHREN EINES MESSVORGANGS

Title (fr)
PROCÉDÉ POUR REALISER UN PROCESSUS DE MESURE

Publication
EP 3775982 A1 20210217 (DE)

Application
EP 19716351 A 20190403

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Abstract (en)
[origin: CA3094023A1] The invention relates to a method for carrying out a measurement process for a LIDAR measurement system, wherein, during the measurement process, a plurality of essentially identical measurement cycles 60, 62, 64 are performed, wherein a new measurement cycle 62 starts only after the end of the previous measurement cycle 60 and a waiting period τ_1 , τ_2 , the waiting periods τ_1 , τ_2 of successive measurement cycles 60, 62 being different from one another. The object 32 which is detected by a sensor element at the shown time is within the measurement period t_{meas} . An object 66 is also shown. This object 66 is situated outside the fixed maximum measurement range of the LIDAR measurement system. Furthermore, the object 66 has a reflectivity which causes detection by the sensor element in a subsequent measurement cycle. The laser pulse emitted at the start of the first measurement cycle 60 and reflected at the object 66 is now detected in the second measurement cycle 62. A first waiting period τ_1 elapses between the end of the first measurement cycle 60 and the start of the second measurement cycle 62. The laser pulse reflected at the object 66 is thus detected at the time T_1 . A second waiting period τ_2 elapses between the end of the second measurement cycle 62 and the start of the third measurement cycle 64. The first waiting period τ_1 and the second waiting period τ_2 are different. The laser light which is reflected at the object 66 is thus detected at the time T_2 . Ghost objects are no longer identified during evaluation of a histogram.

IPC 8 full level
G01S 17/10 (2020.01); **G01S 7/4863** (2020.01); **G01S 7/4865** (2020.01); **G01S 7/487** (2006.01); **G01S 17/931** (2020.01)

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